



May 24, 2011

Mr. W. Owen Thompson  
Remedial Project Manager  
Superfund Remedial Response Section Seven  
U.S. EPA Region 5, SR-6J  
77 W. Jackson Blvd.  
Chicago, IL 60604  
Phone (312) 886-4843  
Machine Fax (312) 353-8426

Subject: Field Inspection and Analytical Results for the  
DS Tributary Sediment Sampling  
Detrex Corporation, Ashtabula, Ohio  
Docket No. V-W-98-C-450

Dear Mr. Thompson:

On behalf of Detrex Corporation (Detrex), and in response an e-mail dated April 28, 2011 from the United States Environmental Protection Agency (USEPA) regarding the reported re-appearance of Dense Non-Aqueous Phase Liquid (DNAPL) in the DS Tributary just west of State Road, URS Corporation (URS) has prepared the following response letter.

Detrex installed sorbent booms in the DS Tributary on April 26, 2011. On April 29, 2011 URS and Detrex personnel completed a visual inspection of the DS Tributary both upstream and downstream of the area where the DNAPL re-appearance was reported. As part of the inspection, nine (9) surficial sediment grab samples were collected from six (6) locations west of State Road and three (3) locations east of State Road. A plan map showing the approximate locations of the sediment sampling locations is provided as **Attachment 1**. Samples collected from the DS Tributary west of State Road (downstream) were identified as SED-1 through SED-6. Samples collected from east of State Road (upstream) were identified as SED-7UP through SED-9UP. The sediment samples were subsequently placed in a cooler on ice and sent to Precision Analytical, Inc. (Precision) for analysis of Volatile Organic Compounds (VOCs - Method 8260) and Semi-Volatile Organic Compounds (SVOCs - Method 8270). Additionally, one of the samples (SED-2) was also analyzed for poly-chlorinated biphenyls (PCBs - Method 8082). Photographs of the sampling areas were taken and are provided in **Attachment 2**.

The analytical results were received from Precision on May 17, 2011. The results from the sediment sampling are summarized in the two tables provided as **Attachment 3 (Tables 1 & 2)**. The complete analytical report from Precision is provided as **Attachment 4**.

The results presented in **Attachment 3 (Tables 1 & 2)** were compared to the established CRGs for EU-5. Based on this comparison there were no CRG exceedances. Based on the field observations and sampling results, the reported DNAPL re-appearance is likely the result of residual DNAPL within the existing State Road culvert or within the soil matrix downstream of the existing State Road Bridge. The previous limited sediment removal, completed by Detrex in 2009, was focused within the DS Tributary channel and was limited to between 6 – 12 inches in depth. As part of this work effort, a total of approximately 47 cubic yards of material were removed and disposed as documented in the Sediment

URS Corporation  
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Cleveland, OH 44115  
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Mr. W. Owen Thompson  
United States Environmental Protection Agency  
May 24, 2011  
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and DNAPL Delineation Report (URS, 2010). Further, analytical data from sampling completed in 2009 also indicated elevated levels of VOCs and SVOCs within the DS Tributary channel at similar concentrations to those reported in **Attachment 3**. It should also be noted that no soil removal in and around the State Road bridge structure has been completed in any previous remediation efforts, in order to maintain the integrity of the culvert. Additionally, samples collected from the upstream locations (SED-7UP through SED-9UP) had no detections of hexachlorobenzene or hexachlorobutadiene, and only TCE at very low concentrations. The TCE detections are likely attributable to cross contamination from the sampling equipment. Further, it is also noted that no sheen or DNAPL was observed in any of the upstream sample locations. However, a sheen was observed at downstream sample locations only after the streambed was disturbed. There is no continuous sheen as a result of residual DNAPL in the streambed.

Therefore, Detrex continues to assert that the recent DNAPL re-appearance in the DS Tributary west of State Road is not attributable to an ongoing source from the Detrex property. The reported re-appearance of DNAPL is likely a remnant of historical operations from upstream facilities and subsequent sediment contamination within the DS Tributary channel.

In addition, Detrex has also collected water samples from the two newly-installed DNAPL collection trenches located west of State Road in the DS Tributary. **Attachment 5** contains a summary of results (**Table 3**) from the March 2010 and recent April 29, 2011 sampling. The complete analytical report from Precision is also provided.

If you have any questions regarding this submittal, please do not hesitate to contact me at 216-622-2432 at your convenience.

Sincerely,

**URS Corporation - Ohio**

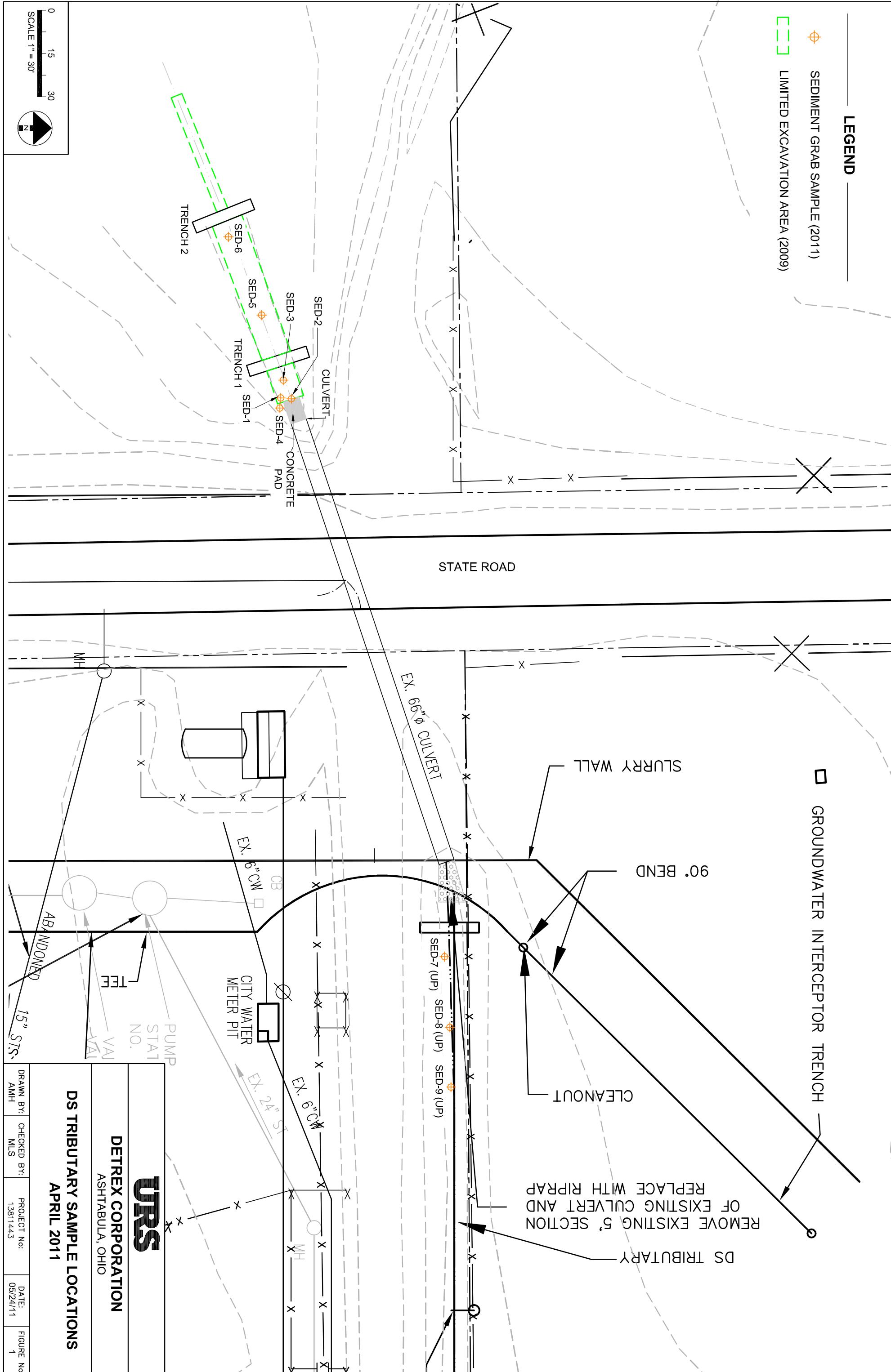


Martin L. Schmidt, Ph.D.  
Vice President

Enclosure

cc: R. Currie – Detrex Corporation  
T. Steib – Detrex Corporation  
T. Doll - Detrex Corporation  
R. Williams – Ohio EPA  
W. Earle – SulTRAC  
File

**ATTACHMENT 1  
PLAN MAP DEPICTING  
SEDIMENT SAMPLING LOCATIONS**



**ATTACHMENT 2  
PHOTOGRAPHIC LOG**

**Client Name:**  
Detrex Corporation**Site Location:**  
Ashtabula, Ohio**Project No.**  
13814613**Photo No.**  
1**Date:**  
04/29/11**Description:**

Photo looking east.  
Sample location Sed-2  
taken directly in front of  
culvert concrete lip.  
Note: booms were installed  
by Detrex Corporation.



**Client Name:**  
Detrex Corporation**Site Location:**  
Ashtabula, Ohio**Project No.**  
13814613**Photo No.**  
2**Date:**  
04/29/11**Description:**

Photo looking northeast.  
Sample Sed-5 was taken in  
the middle of the DS  
Tributary channel  
downstream of the first  
collection trench (Trench-1)  
Note: booms were installed  
by Detrex Corporation.



**Client Name:**  
Detrex Corporation**Site Location:**  
Ashtabula, Ohio**Project No.**  
13814613**Photo No.**  
3**Date:**  
04/29/11**Description:**

Photo looking northwest, samples Sed-7 (up) and Sed (8) within the DS tributary channel, Sed-9 (up) is not pictured.  
Note the round concrete culvert east of State Road.



**ATTACHMENT 3**  
**TABLES 1 AND 2**

**Table 1**  
**Summary Of Detected Chemicals In DS Tributary Sediment Samples West Of State Road**  
**April 2011**  
**Detrex Corporation**  
**Ashtabula, Ohio**

Parameter	Units	CRGs for EU-5	Sed 1 (W. State Rd.-South Side Culvert) 04/29/2011	Sed 2 (W. State Rd.-Lip of Culvert) 04/29/2011	Sed-3 (W. State Rd.-Middle 25 W. Culvert) 04/29/2011	Sed 4 (W. State Rd.-Near Stake S. Culvert) 04/29/2011	Sed 5 (W. State Rd.-W. of East Trench) 04/29/2011	Sed 6 (W. State Rd.-E. of West Trench) 04/29/2011
<u>Volatile Organics</u>								
1,1,2,2-Tetrachloroethane	mg/kg	102	2.03	0.361 U	0.450	0.0234	0.635	23.2
1,1,2-Trichloroethane	mg/kg		0.490 U	0.361 U	0.347 U	0.0181 U	0.494 U	0.452
1,1-Dichloroethene	mg/kg		0.490 U	0.361 U	0.347 U	0.0181 U	0.494 U	0.0671
Chloroethane	mg/kg		0.490 U	0.361 U	0.347 U	0.0283	0.494 U	0.0232 U
Chloroform	mg/kg		0.490 U	0.361 U	0.347 U	0.0181 U	0.494 U	0.105
cis-1,2-Dichloroethene	mg/kg	N/A	0.964	0.361 U	0.170	0.0181 U	8.41	24.4
Dibromochloromethane	mg/kg		0.490 U	0.361 U	0.347 U	0.117	0.494 U	0.201
Tetrachloroethene	mg/kg	392	7.86	1.67	0.705	0.0731	1.30	0.124
trans-1,2-Dichloroethene	mg/kg		0.490 U	0.361 U	0.347 U	0.0181 U	0.457	0.324
Trichloroethene	mg/kg	1854	1.85	0.311	0.384	0.0429	1.48	0.411
Vinyl Chloride	mg/kg		0.490 U	0.361 U	0.347 U	0.0181 U	0.603	1.38
<u>Semivolatile Organics</u>								
Benzo(k)fluoranthene	mg/kg		0.950 U	4.60 U	4.81 U	0.926 U	2.77 U	0.856 U
Chrysene	mg/kg		0.950 U	4.60 U	4.81 U	0.926 U	2.77 U	0.856 U
Fluoranthene	mg/kg		0.950 U	4.60 U	4.81 U	0.926 U	2.77 U	0.856 U
Hexachlorobenzene	mg/kg	39	9.78	16.20	6.18	7.86	17.2	4.44
Hexachlorobutadiene	mg/kg	N/A	3.67	4.60 U	8.51	2.77	7.59	1.35
Pyrene	mg/kg	N/A	0.950 U	4.60 U	4.81 U	0.926 U	2.77 U	0.856 U
<u>PCBs</u>								
Aroclor (all)	mg/kg		NS	6.46 U	NS	NS	NS	NS

Notes: **Bold** = Analyte detected above reporting limit

**Underline** = Concentration exceeds CRG value.

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

J = Estimated concentration because quality control criteria were not met.

N/A = No Applicable CRG

NS = The sample was not analyzed for the compound listed

**Table 2**  
**Summary Of Detected Chemicals In DS Tributary Sediment Samples East Of State Road**  
**April 2011**  
**Detrex Corporation**  
**Ashtabula, Ohio**

Parameter	Units	CRGs for EU-5	Sed 7 up (E. State Rd.-25' East of Culvert) 04/29/2011	Sed 8 up (E. State Rd.-50' East of Culvert) 04/29/2011	Sed 9 up (E. State Rd.-70' East of Culvert) 04/29/2011
<u>Volatile Organics</u>					
1,1,2,2-Tetrachloroethane	mg/kg	102	0.0112 U	0.0143 U	0.0169 U
1,1,2-Trichloroethane	mg/kg		0.0112 U	0.0143 U	0.0169 U
1,1-Dichloroethene	mg/kg		0.0112 U	0.0143 U	0.0169 U
Chloroethane	mg/kg		0.0112 U	0.0143 U	0.0169 U
Chloroform	mg/kg		0.0112 U	0.0143 U	0.0169 U
cis-1,2-Dichloroethene	mg/kg	N/A	<b>0.964</b>	0.0143 U	0.0169 U
Dibromochloromethane	mg/kg		0.0112 U	0.0143 U	0.0169 U
Tetrachloroethene	mg/kg	392	0.0112 U	0.0143 U	0.0169 U
trans-1,2-Dichloroethene	mg/kg		0.0112 U	0.0143 U	0.0169 U
Trichloroethene	mg/kg	1854	<b>0.067</b>	0.0143 U	<b>0.0269</b>
Vinyl Chloride	mg/kg		0.0112 U	0.0143 U	0.0169 U
<u>Semivolatile Organics</u>					
Benzo(k)fluoranthene	mg/kg		4.55 U	4.24 U	<b>1.16</b>
Chrysene	mg/kg		4.55 U	4.24 U	<b>1.02</b>
Fluoranthene	mg/kg		4.55 U	4.24 U	<b>1.73</b>
Hexachlorobenzene	mg/kg	39	4.55 U	4.24 U	<b>6.18</b>
Hexachlorobutadiene	mg/kg	N/A	4.55 U	4.24 U	<b>8.51</b>
Pyrene	mg/kg	N/A	4.55 U	4.24 U	<b>1.64</b>
<u>PCBs</u>					
Aroclor (all)	mg/kg		NS	NS	NS

Notes:    **Bold** = Analyte detected above reporting limit

Underline = Concentration exceeds CRG value.

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.

J = Estimated concentration because quality control criteria were not met.

N/A = No Applicable CRG

NS = The sample was not analyzed for the compound listed

**ATTACHMENT 4**  
**PRECISION ANALYTICAL REPORTS**



Precision Analytical, Inc.  
4450 Johnston Parkway Unit B  
Cleveland, OH 44128  
TEL: 216 663 0808 FAX: 216 663 0656  
Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

May 17, 2011

Sam Spain  
Detrex Corporation  
1100 N. State Road  
Ashtabula, OH 44004  
TEL: (440) 997-6131  
FAX: (440) 992-2904

RE: Sediment Samples

Order No.: 1104792

Dear Sam Spain:

Precision Analytical, Inc. received 9 sample(s) on 4/29/2011 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in an attached Case Narrative. Quality control data is within laboratory defined or method specified acceptance limits except if noted. Note that sample results reported relate only the samples as received at the laboratory.

Solid samples are reported in ug/Kg or mg/Kg as received, unless specified in the units as dry weight. Unless otherwise noted, results have not been background or blank corrected.

If you have any questions regarding these tests results, please feel free to call.

Certifications: Ohio EPA - 4041; NELAC NY - 11167; NELAC PA - 68-00434;  
W.Va DEP - 245; KY UST - 69

Sincerely,

A handwritten signature in black ink that reads "Scott Bolam".

Scott Bolam  
QA/QC Manager



Precision Analytical, Inc.  
4450 Johnston Parkway Unit B  
Cleveland, OH 44128  
TEL: 216 663 0808 FAX: 216 663 0656  
Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:15:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-001                           **Matrix:** SOLID  
**Client Sample ID** Sed 1 (W. State Rd.-South Side Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
1,2,4-Trichlorobenzene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
1,2-Dichlorobenzene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
1,3-Dichlorobenzene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
1,4-Dichlorobenzene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2,4,5-Trichlorophenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2,4,6-Trichlorophenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2,4-Dichlorophenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2,4-Dimethylphenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2,4-Dinitrophenol	ND	4.89	mg/Kg		1	5/15/2011 5:28:00 PM
2,4-Dinitrotoluene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2,6-Dinitrotoluene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2-Choronaphthalene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2-Chlorophenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2-Methylnaphthalene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2-Methylphenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
2-Nitroaniline	ND	4.89	mg/Kg		1	5/15/2011 5:28:00 PM
2-Nitrophenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
3&4 Methylphenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
3,3'-Dichlorobenzidine	ND	1.90	mg/Kg		1	5/15/2011 5:28:00 PM
3-Nitroaniline	ND	4.89	mg/Kg		1	5/15/2011 5:28:00 PM
4,6-Dinitro-2-methylphenol	ND	4.89	mg/Kg		1	5/15/2011 5:28:00 PM
4-Bromophenyl phenyl ether	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
4-Chloro-3-methylphenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
4-Chloroaniline	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
4-Chlorophenyl phenyl ether	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
4-Nitroaniline	ND	1.90	mg/Kg		1	5/15/2011 5:28:00 PM
4-Nitrophenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Acenaphthene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Acenaphthylene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Anthracene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Benzo (a) anthracene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Benzo(a)pyrene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Benzo(b)fluoranthene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Benzo(g,h,i)perylene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



Precision Analytical, Inc.  
4450 Johnston Parkway Unit B  
Cleveland, OH 44128  
TEL: 216 663 0808 FAX: 216 663 0656  
Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-001  
**Client Sample ID** Sed 1 (W. State Rd.-South Side Culvert)

**Collection Date:** 4/29/2011 9:15:00 AM

**Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Benzo(k)fluoranthene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Benzoic acid	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Benzyl alcohol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Bis(2-chloroethoxy)methane	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Bis(2-chloroethyl) ether	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Bis(2-chloroisopropyl) ether	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Butyl benzyl phthalate	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Chrysene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Dibenz(a,h)anthracene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Dibenzofuran	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Diethyl phthalate	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Dimethyl phthalate	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Di-n-butyl phthalate	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Di-n-octyl phthalate	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Fluoranthene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Fluorene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Hexachlorobenzene	9.78	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Hexachlorobutadiene	3.67	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Hexachlorocyclopentadiene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Hexachloroethane	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Isophorone	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Naphthalene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Nitrobenzene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
N-Nitrosodi-n-propylamine	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
N-Nitrosodiphenylamine	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Pentachlorophenol	ND	4.89	mg/Kg		1	5/15/2011 5:28:00 PM
Phenanthrene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Phenol	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Pyrene	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Pyridine	ND	0.950	mg/Kg		1	5/15/2011 5:28:00 PM
Surr: 2,4,6-Tribromophenol	74.8	19-122	%REC		1	5/15/2011 5:28:00 PM
Surr: 2-Fluorobiphenyl	37.7	30-115	%REC		1	5/15/2011 5:28:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



Precision Analytical, Inc.  
4450 Johnston Parkway Unit B  
Cleveland, OH 44128  
TEL: 216 663 0808 FAX: 216 663 0656  
Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation **Collection Date:** 4/29/2011 9:15:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-001 **Matrix:** SOLID  
**Client Sample ID** Sed 1 (W. State Rd.-South Side Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Surr: 2-Fluorophenol	21.5	25-121	S	%REC	1	5/15/2011 5:28:00 PM
Surr: Nitrobenzene-d5	23.7	23-120		%REC	1	5/15/2011 5:28:00 PM
Surr: Phenol-d6	31.7	24-113		%REC	1	5/15/2011 5:28:00 PM
Surr: Terphenyl-d14	77.5	18-137		%REC	1	5/15/2011 5:28:00 PM
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1-Trichloroethane	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
1,1,2,2-Tetrachloroethane	2.03	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
1,1,2-Trichloroethane	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
1,1-Dichloroethane	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
1,1-Dichloroethene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
1,2-Dichloroethane	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
1,2-Dichloropropane	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
2-Hexanone	ND	9.80		mg/Kg	98	5/2/2011 2:46:00 PM
4-Methyl-2-pentanone	ND	1.96		mg/Kg	98	5/2/2011 2:46:00 PM
Acetone	ND	9.80		mg/Kg	98	5/2/2011 2:46:00 PM
Benzene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Bromodichloromethane	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Bromoform	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Bromomethane	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Carbon disulfide	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Carbon tetrachloride	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Chlorobenzene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Chloroethane	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Chloroform	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Chloromethane	ND	0.980		mg/Kg	98	5/2/2011 2:46:00 PM
cis-1,2-Dichloroethene	0.964	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
cis-1,3-Dichloropropene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Dibromochloromethane	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Ethylbenzene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
m,p-Xylene	ND	0.980		mg/Kg	98	5/2/2011 2:46:00 PM
Methyl ethyl ketone	ND	1.96		mg/Kg	98	5/2/2011 2:46:00 PM
Methylene chloride	ND	1.96		mg/Kg	98	5/2/2011 2:46:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



# PRECISION ANALYTICAL, INC.

*Precision Analytical, Inc.*  
4450 Johnston Parkway Unit B  
Cleveland, OH 44128  
TEL: 216 663 0808 FAX: 216 663 0656  
Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

## Analytical Report

(consolidated)

1104792

WO#:

5/17/2011

Date Reported

5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-001  
**Client Sample ID** Sed 1 (W. State Rd.-South Side Culvert)

Collection Date: 4/29/2011 9:15:00 AM

### Matrix: SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: AC</b>
o-Xylene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Styrene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Tetrachloroethene	7.86	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Toluene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
trans-1,2-Dichloroethene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
trans-1,3-Dichloropropene	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Trichloroethene	1.85	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Vinyl acetate	ND	0.980		mg/Kg	98	5/2/2011 2:46:00 PM
Vinyl chloride	ND	0.490		mg/Kg	98	5/2/2011 2:46:00 PM
Surr: 4-Bromofluorobenzene	108	74-121		%REC	98	5/2/2011 2:46:00 PM
Surr: Dibromofluoromethane	91.4	80-120		%REC	98	5/2/2011 2:46:00 PM
Surr: Toluene-d8	104	81-117		%REC	98	5/2/2011 2:46:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation **Collection Date:** 4/29/2011 9:17:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-002 **Matrix:** SOLID  
**Client Sample ID** Sed 2 (W. State Rd.-Lip of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>PCBS, SOLID/OIL</b>						
<b>POLYCHLORINATED BIPHENYLS (PCBS), SOLID</b>						
Aroclor 1016	ND	6.46		mg/Kg	50	5/5/2011
Aroclor 1221	ND	6.46		mg/Kg	50	5/5/2011
Aroclor 1232	ND	6.46		mg/Kg	50	5/5/2011
Aroclor 1242	ND	6.46		mg/Kg	50	5/5/2011
Aroclor 1248	ND	6.46		mg/Kg	50	5/5/2011
Aroclor 1254	ND	6.46		mg/Kg	50	5/5/2011
Aroclor 1260	ND	6.46		mg/Kg	50	5/5/2011
Surr: Decachlorobiphenyl	222	30-150	S	%REC	50	5/5/2011
Surr: Tetrachloro-m-xylene	4,580	30-150	S	%REC	50	5/5/2011
<b>NOTES:</b>						
surrogates out because of high dilution due to matrix interference						
<b>TCL SEMI-VOLATILES, SOLID</b>						
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
1,2,4-Trichlorobenzene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
1,2-Dichlorobenzene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
1,3-Dichlorobenzene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
1,4-Dichlorobenzene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2,4,5-Trichlorophenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2,4,6-Trichlorophenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2,4-Dichlorophenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2,4-Dimethylphenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2,4-Dinitrophenol	ND	23.7		mg/Kg	5	5/15/2011 6:13:00 PM
2,4-Dinitrotoluene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2,6-Dinitrotoluene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2-Chloronaphthalene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2-Chlorophenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2-Methylnaphthalene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2-Methylphenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
2-Nitroaniline	ND	23.7		mg/Kg	5	5/15/2011 6:13:00 PM
2-Nitrophenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
3&4 Methylphenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
3,3'-Dichlorobenzidine	ND	9.19		mg/Kg	5	5/15/2011 6:13:00 PM
3-Nitroaniline	ND	23.7		mg/Kg	5	5/15/2011 6:13:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-002  
**Client Sample ID** Sed 2 (W. State Rd.-Lip of Culvert)

**Collection Date:** 4/29/2011 9:17:00 AM

**Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8270C</b>		Analyst: <b>AC</b>
4,6-Dinitro-2-methylphenol	ND	23.7		mg/Kg	5	5/15/2011 6:13:00 PM
4-Bromophenyl phenyl ether	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
4-Chloro-3-methylphenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
4-Chloroaniline	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
4-Chlorophenyl phenyl ether	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
4-Nitroaniline	ND	9.19		mg/Kg	5	5/15/2011 6:13:00 PM
4-Nitrophenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Acenaphthene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Acenaphthylene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Anthracene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Benzo (a) anthracene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Benzo(a)pyrene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Benzo(b)fluoranthene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Benzo(g,h,i)perylene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Benzo(k)fluoranthene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Benzoic acid	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Benzyl alcohol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Bis(2-chloroethoxy)methane	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Bis(2-chloroethyl) ether	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Bis(2-chloroisopropyl) ether	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Bis(2-ethylhexyl) phthalate	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Butyl benzyl phthalate	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Chrysene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Dibenz(a,h)anthracene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Dibenzofuran	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Diethyl phthalate	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Dimethyl phthalate	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Di-n-butyl phthalate	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Di-n-octyl phthalate	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Fluoranthene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Fluorene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Hexachlorobenzene	16.2	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Hexachlorobutadiene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Hexachlorocyclopentadiene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation **Collection Date:** 4/29/2011 9:17:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-002 **Matrix:** SOLID  
**Client Sample ID** Sed 2 (W. State Rd.-Lip of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8270C</b>		Analyst: <b>AC</b>
Hexachloroethane	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Indeno(1,2,3-cd)pyrene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Isophorone	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Naphthalene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Nitrobenzene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
N-Nitrosodi-n-propylamine	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
N-Nitrosodiphenylamine	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Pentachlorophenol	ND	23.7		mg/Kg	5	5/15/2011 6:13:00 PM
Phenanthrene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Phenol	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Pyrene	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Pyridine	ND	4.60		mg/Kg	5	5/15/2011 6:13:00 PM
Surr: 2,4,6-Tribromophenol	71.1	19-122		%REC	5	5/15/2011 6:13:00 PM
Surr: 2-Fluorobiphenyl	66.2	30-115		%REC	5	5/15/2011 6:13:00 PM
Surr: 2-Fluorophenol	59.2	25-121		%REC	5	5/15/2011 6:13:00 PM
Surr: Nitrobenzene-d5	55.4	23-120		%REC	5	5/15/2011 6:13:00 PM
Surr: Phenol-d6	66.7	24-113		%REC	5	5/15/2011 6:13:00 PM
Surr: Terphenyl-d14	79.5	18-137		%REC	5	5/15/2011 6:13:00 PM
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8260B</b>		Analyst: <b>AC</b>
1,1,1-Trichloroethane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
1,1,2,2-Tetrachloroethane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
1,1,2-Trichloroethane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
1,1-Dichloroethane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
1,1-Dichloroethene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
1,2-Dichloroethane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
1,2-Dichloropropane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
2-Hexanone	ND	7.22		mg/Kg	72.2	5/2/2011 3:10:00 PM
4-Methyl-2-pentanone	ND	1.44		mg/Kg	72.2	5/2/2011 3:10:00 PM
Acetone	ND	7.22		mg/Kg	72.2	5/2/2011 3:10:00 PM
Benzene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Bromodichloromethane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Bromoform	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation **Collection Date:** 4/29/2011 9:17:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-002 **Matrix:** SOLID  
**Client Sample ID** Sed 2 (W. State Rd.-Lip of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, SOLID</b>						
<b>VOLATILE ORGANIC COMPOUNDS</b>						
Bromomethane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Carbon disulfide	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Carbon tetrachloride	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Chlorobenzene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Chloroethane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Chloroform	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Chloromethane	ND	0.722		mg/Kg	72.2	5/2/2011 3:10:00 PM
cis-1,2-Dichloroethene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
cis-1,3-Dichloropropene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Dibromochloromethane	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Ethylbenzene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
m,p-Xylene	ND	0.722		mg/Kg	72.2	5/2/2011 3:10:00 PM
Methyl ethyl ketone	ND	1.44		mg/Kg	72.2	5/2/2011 3:10:00 PM
Methylene chloride	ND	1.44		mg/Kg	72.2	5/2/2011 3:10:00 PM
o-Xylene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Styrene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Tetrachloroethene	1.67	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Toluene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
trans-1,2-Dichloroethene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
trans-1,3-Dichloropropene	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Trichloroethene	0.311	0.144		mg/Kg	72.2	5/2/2011 3:10:00 PM
Vinyl acetate	ND	0.722		mg/Kg	72.2	5/2/2011 3:10:00 PM
Vinyl chloride	ND	0.361		mg/Kg	72.2	5/2/2011 3:10:00 PM
Surr: 4-Bromofluorobenzene	111	74-121		%REC	72.2	5/2/2011 3:10:00 PM
Surr: Dibromofluoromethane	91.6	80-120		%REC	72.2	5/2/2011 3:10:00 PM
Surr: Toluene-d8	105	81-117		%REC	72.2	5/2/2011 3:10:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:20:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-003                           **Matrix:** SOLID  
**Client Sample ID** Sed 3 (W. State Rd.-Middle 25 W. Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
1,2,4-Trichlorobenzene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
1,2-Dichlorobenzene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
1,3-Dichlorobenzene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
1,4-Dichlorobenzene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2,4,5-Trichlorophenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2,4,6-Trichlorophenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2,4-Dichlorophenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2,4-Dimethylphenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2,4-Dinitrophenol	ND	24.8		mg/Kg	5	5/15/2011 8:29:00 PM
2,4-Dinitrotoluene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2,6-Dinitrotoluene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2-Choronaphthalene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2-Chlorophenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2-Methylnaphthalene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2-Methylphenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
2-Nitroaniline	ND	24.8		mg/Kg	5	5/15/2011 8:29:00 PM
2-Nitrophenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
3&4 Methylphenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
3,3'-Dichlorobenzidine	ND	9.61		mg/Kg	5	5/15/2011 8:29:00 PM
3-Nitroaniline	ND	24.8		mg/Kg	5	5/15/2011 8:29:00 PM
4,6-Dinitro-2-methylphenol	ND	24.8		mg/Kg	5	5/15/2011 8:29:00 PM
4-Bromophenyl phenyl ether	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
4-Chloro-3-methylphenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
4-Chloroaniline	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
4-Chlorophenyl phenyl ether	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
4-Nitroaniline	ND	9.61		mg/Kg	5	5/15/2011 8:29:00 PM
4-Nitrophenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Acenaphthene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Acenaphthylene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Anthracene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Benzo (a) anthracene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Benzo(a)pyrene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Benzo(b)fluoranthene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Benzo(g,h,i)perylene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-003  
**Client Sample ID** Sed 3 (W. State Rd.-Middle 25 W. Culvert)

**Collection Date:** 4/29/2011 9:20:00 AM

**Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Benzo(k)fluoranthene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Benzoic acid	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Benzyl alcohol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Bis(2-chloroethoxy)methane	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Bis(2-chloroethyl) ether	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Bis(2-chloroisopropyl) ether	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Bis(2-ethylhexyl) phthalate	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Butyl benzyl phthalate	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Chrysene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Dibenz(a,h)anthracene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Dibenzofuran	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Diethyl phthalate	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Dimethyl phthalate	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Di-n-butyl phthalate	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Di-n-octyl phthalate	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Fluoranthene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Fluorene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Hexachlorobenzene	6.18	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Hexachlorobutadiene	8.51	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Hexachlorocyclopentadiene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Hexachloroethane	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Indeno(1,2,3-cd)pyrene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Isophorone	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Naphthalene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Nitrobenzene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
N-Nitrosodi-n-propylamine	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
N-Nitrosodiphenylamine	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Pentachlorophenol	ND	24.8		mg/Kg	5	5/15/2011 8:29:00 PM
Phenanthrene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Phenol	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Pyrene	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Pyridine	ND	4.81		mg/Kg	5	5/15/2011 8:29:00 PM
Surr: 2,4,6-Tribromophenol	74.7	19-122		%REC	5	5/15/2011 8:29:00 PM
Surr: 2-Fluorobiphenyl	75.2	30-115		%REC	5	5/15/2011 8:29:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:20:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-003                           **Matrix:** SOLID  
**Client Sample ID** Sed 3 (W. State Rd.-Middle 25 W. Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Surr: 2-Fluorophenol	66.3	25-121	%REC		5	5/15/2011 8:29:00 PM
Surr: Nitrobenzene-d5	63.9	23-120	%REC		5	5/15/2011 8:29:00 PM
Surr: Phenol-d6	74.0	24-113	%REC		5	5/15/2011 8:29:00 PM
Surr: Terphenyl-d14	84.4	18-137	%REC		5	5/15/2011 8:29:00 PM
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8260B</b>		<b>Analyst: AC</b>
1,1,1-Trichloroethane	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
1,1,2,2-Tetrachloroethane	0.450	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
1,1,2-Trichloroethane	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
1,1-Dichloroethane	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
1,1-Dichloroethene	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
1,2-Dichloroethane	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
1,2-Dichloropropane	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
2-Hexanone	ND	6.94	mg/Kg		69.4	5/2/2011 3:33:00 PM
4-Methyl-2-pentanone	ND	1.39	mg/Kg		69.4	5/2/2011 3:33:00 PM
Acetone	ND	6.94	mg/Kg		69.4	5/2/2011 3:33:00 PM
Benzene	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Bromodichloromethane	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Bromoform	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Bromomethane	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Carbon disulfide	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Carbon tetrachloride	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Chlorobenzene	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Chloroethane	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Chloroform	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Chloromethane	ND	0.694	mg/Kg		69.4	5/2/2011 3:33:00 PM
cis-1,2-Dichloroethene	0.170	0.139	mg/Kg		69.4	5/2/2011 3:33:00 PM
cis-1,3-Dichloropropene	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Dibromochloromethane	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
Ethylbenzene	ND	0.347	mg/Kg		69.4	5/2/2011 3:33:00 PM
m,p-Xylene	ND	0.694	mg/Kg		69.4	5/2/2011 3:33:00 PM
Methyl ethyl ketone	ND	1.39	mg/Kg		69.4	5/2/2011 3:33:00 PM
Methylene chloride	ND	1.39	mg/Kg		69.4	5/2/2011 3:33:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation **Collection Date:** 4/29/2011 9:20:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-003 **Matrix:** SOLID  
**Client Sample ID** Sed 3 (W. State Rd.-Middle 25 W. Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
o-Xylene	ND	0.347		mg/Kg	69.4	5/2/2011 3:33:00 PM
Styrene	ND	0.347		mg/Kg	69.4	5/2/2011 3:33:00 PM
Tetrachloroethene	0.705	0.347		mg/Kg	69.4	5/2/2011 3:33:00 PM
Toluene	ND	0.347		mg/Kg	69.4	5/2/2011 3:33:00 PM
trans-1,2-Dichloroethene	ND	0.347		mg/Kg	69.4	5/2/2011 3:33:00 PM
trans-1,3-Dichloropropene	ND	0.347		mg/Kg	69.4	5/2/2011 3:33:00 PM
Trichloroethene	0.384	0.347		mg/Kg	69.4	5/2/2011 3:33:00 PM
Vinyl acetate	ND	0.694		mg/Kg	69.4	5/2/2011 3:33:00 PM
Vinyl chloride	ND	0.347		mg/Kg	69.4	5/2/2011 3:33:00 PM
Surr: 4-Bromofluorobenzene	111	74-121		%REC	69.4	5/2/2011 3:33:00 PM
Surr: Dibromofluoromethane	88.4	80-120		%REC	69.4	5/2/2011 3:33:00 PM
Surr: Toluene-d8	105	81-117		%REC	69.4	5/2/2011 3:33:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
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**Analytical Report**  
(consolidated)  
WO#: **1104792**  
Date Reported: **5/17/2011**

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-004  
**Client Sample ID** Sed 4 (W. State Rd.-Near Stake S. Culvert)

**Collection Date:** 4/29/2011 9:22:00 AM

**Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8270C</b>		Analyst: <b>AC</b>
1,2,4-Trichlorobenzene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
1,2-Dichlorobenzene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
1,3-Dichlorobenzene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
1,4-Dichlorobenzene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2,4,5-Trichlorophenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2,4,6-Trichlorophenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2,4-Dichlorophenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2,4-Dimethylphenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2,4-Dinitrophenol	ND	4.77		mg/Kg	1	5/15/2011 9:14:00 PM
2,4-Dinitrotoluene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2,6-Dinitrotoluene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2-Chloronaphthalene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2-Chlorophenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2-Methylnaphthalene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2-Methylphenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
2-Nitroaniline	ND	4.77		mg/Kg	1	5/15/2011 9:14:00 PM
2-Nitrophenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
3&4 Methylphenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
3,3'-Dichlorobenzidine	ND	1.85		mg/Kg	1	5/15/2011 9:14:00 PM
3-Nitroaniline	ND	4.77		mg/Kg	1	5/15/2011 9:14:00 PM
4,6-Dinitro-2-methylphenol	ND	4.77		mg/Kg	1	5/15/2011 9:14:00 PM
4-Bromophenyl phenyl ether	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
4-Chloro-3-methylphenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
4-Chloroaniline	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
4-Chlorophenyl phenyl ether	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
4-Nitroaniline	ND	1.85		mg/Kg	1	5/15/2011 9:14:00 PM
4-Nitrophenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Acenaphthene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Acenaphthylene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Anthracene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Benzo (a) anthracene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Benzo(a)pyrene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Benzo(b)fluoranthene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Benzo(g,h,i)perylene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-004  
**Client Sample ID** Sed 4 (W. State Rd.-Near Stake S. Culvert)

**Collection Date:** 4/29/2011 9:22:00 AM

**Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Benzo(k)fluoranthene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Benzoic acid	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Benzyl alcohol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Bis(2-chloroethoxy)methane	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Bis(2-chloroethyl) ether	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Bis(2-chloroisopropyl) ether	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Butyl benzyl phthalate	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Chrysene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Dibenz(a,h)anthracene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Dibenzofuran	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Diethyl phthalate	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Dimethyl phthalate	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Di-n-butyl phthalate	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Di-n-octyl phthalate	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Fluoranthene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Fluorene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Hexachlorobenzene	7.86	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Hexachlorobutadiene	2.77	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Hexachlorocyclopentadiene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Hexachloroethane	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Isophorone	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Naphthalene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Nitrobenzene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
N-Nitrosodi-n-propylamine	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
N-Nitrosodiphenylamine	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Pentachlorophenol	ND	4.77		mg/Kg	1	5/15/2011 9:14:00 PM
Phenanthrene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Phenol	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Pyrene	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Pyridine	ND	0.926		mg/Kg	1	5/15/2011 9:14:00 PM
Surr: 2,4,6-Tribromophenol	75.1	19-122		%REC	1	5/15/2011 9:14:00 PM
Surr: 2-Fluorobiphenyl	42.2	30-115		%REC	1	5/15/2011 9:14:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:22:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-004                           **Matrix:** SOLID  
**Client Sample ID** Sed 4 (W. State Rd.-Near Stake S. Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Surr: 2-Fluorophenol	22.5	25-121	S	%REC	1	5/15/2011 9:14:00 PM
Surr: Nitrobenzene-d5	25.3	23-120		%REC	1	5/15/2011 9:14:00 PM
Surr: Phenol-d6	36.6	24-113		%REC	1	5/15/2011 9:14:00 PM
Surr: Terphenyl-d14	80.7	18-137		%REC	1	5/15/2011 9:14:00 PM
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1-Trichloroethane	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
1,1,2,2-Tetrachloroethane	0.0234	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
1,1,2-Trichloroethane	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
1,1-Dichloroethane	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
1,1-Dichloroethene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
1,2-Dichloroethane	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
1,2-Dichloropropane	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
2-Hexanone	ND	0.362		mg/Kg	3.62	4/29/2011 7:22:00 PM
4-Methyl-2-pentanone	ND	0.0724		mg/Kg	3.62	4/29/2011 7:22:00 PM
Acetone	ND	0.362		mg/Kg	3.62	4/29/2011 7:22:00 PM
Benzene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Bromodichloromethane	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Bromoform	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Bromomethane	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Carbon disulfide	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Carbon tetrachloride	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Chlorobenzene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Chloroethane	0.0283	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Chloroform	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Chloromethane	ND	0.0362		mg/Kg	3.62	4/29/2011 7:22:00 PM
cis-1,2-Dichloroethene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
cis-1,3-Dichloropropene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Dibromochloromethane	0.117	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Ethylbenzene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
m,p-Xylene	ND	0.0362		mg/Kg	3.62	4/29/2011 7:22:00 PM
Methyl ethyl ketone	ND	0.0724		mg/Kg	3.62	4/29/2011 7:22:00 PM
Methylene chloride	ND	0.0724		mg/Kg	3.62	4/29/2011 7:22:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

# Analytical Report

(consolidated)

WO#: 1104792

Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-004  
**Client Sample ID** Sed 4 (W. State Rd.-Near S.

Collection Date: 4/29/2011 9:22:00 AM

### Matrix: SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8260B</b>		Analyst: AC
o-Xylene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Styrene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Tetrachloroethene	0.0731	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Toluene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
trans-1,2-Dichloroethene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
trans-1,3-Dichloropropene	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Trichloroethene	0.0429	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Vinyl acetate	ND	0.0362		mg/Kg	3.62	4/29/2011 7:22:00 PM
Vinyl chloride	ND	0.0181		mg/Kg	3.62	4/29/2011 7:22:00 PM
Surr: 4-Bromofluorobenzene	97.2	74-121		%REC	3.62	4/29/2011 7:22:00 PM
Surr: Dibromofluoromethane	105	80-120		%REC	3.62	4/29/2011 7:22:00 PM
Surr: Toluene-d8	100	81-117		%REC	3.62	4/29/2011 7:22:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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## Analytical Report

(consolidated)

1104792

WO#:

Date Reported: **5/17/2011**

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-005  
**Client Sample ID** Sed 5 (W. State Rd.-W. of East Trench)

Collection Date: 4/29/2011 9:25:00 AM

### Matrix: SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8270C</b>		<b>Analyst: AC</b>
1,2,4-Trichlorobenzene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
1,2-Dichlorobenzene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
1,3-Dichlorobenzene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
1,4-Dichlorobenzene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2,4,5-Trichlorophenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2,4,6-Trichlorophenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2,4-Dichlorophenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2,4-Dimethylphenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2,4-Dinitrophenol	ND	14.3	mg/Kg	5	5/15/2011 9:59:00 PM	
2,4-Dinitrotoluene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2,6-Dinitrotoluene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2-Chloronaphthalene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2-Chlorophenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2-Methylnaphthalene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2-Methylphenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
2-Nitroaniline	ND	14.3	mg/Kg	5	5/15/2011 9:59:00 PM	
2-Nitrophenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
3&4 Methylphenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
3,3'-Dichlorobenzidine	ND	5.54	mg/Kg	5	5/15/2011 9:59:00 PM	
3-Nitroaniline	ND	14.3	mg/Kg	5	5/15/2011 9:59:00 PM	
4,6-Dinitro-2-methylphenol	ND	14.3	mg/Kg	5	5/15/2011 9:59:00 PM	
4-Bromophenyl phenyl ether	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
4-Chloro-3-methylphenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
4-Chloroaniline	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
4-Chlorophenyl phenyl ether	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
4-Nitroaniline	ND	5.54	mg/Kg	5	5/15/2011 9:59:00 PM	
4-Nitrophenol	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
Acenaphthene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
Acenaphthylene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
Anthracene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
Benzo (a) anthracene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
Benzo(a)pyrene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
Benzo(b)fluoranthene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	
Benzo(g,h,i)perylene	ND	2.77	mg/Kg	5	5/15/2011 9:59:00 PM	

<b>Qualifiers:</b>	*/X Value exceeds Maximum Contaminant Level DF Dilution Factor J Analyte detected below quantitation limits MDL Method Detection Limit ND Not Detected at the Reporting Limit RL Reporting Detection Limit (PQL)	B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded M Manual Integration used to determine area response N Tentatively identified compounds PL Permit Limit S Spike outside acceptance limits
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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:25:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-005                           **Matrix:** SOLID  
**Client Sample ID** Sed 5 (W. State Rd.-W. of East Trench)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Benzo(k)fluoranthene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Benzoic acid	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Benzyl alcohol	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Bis(2-chloroethoxy)methane	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Bis(2-chloroethyl) ether	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Bis(2-chloroisopropyl) ether	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Bis(2-ethylhexyl) phthalate	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Butyl benzyl phthalate	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Chrysene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Dibenz(a,h)anthracene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Dibenzofuran	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Diethyl phthalate	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Dimethyl phthalate	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Di-n-butyl phthalate	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Di-n-octyl phthalate	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Fluoranthene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Fluorene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Hexachlorobenzene	17.2	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Hexachlorobutadiene	7.59	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Hexachlorocyclopentadiene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Hexachloroethane	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Indeno(1,2,3-cd)pyrene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Isophorone	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Naphthalene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Nitrobenzene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
N-Nitrosodi-n-propylamine	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
N-Nitrosodiphenylamine	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Pentachlorophenol	ND	14.3		mg/Kg	5	5/15/2011 9:59:00 PM
Phenanthrene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Phenol	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Pyrene	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Pyridine	ND	2.77		mg/Kg	5	5/15/2011 9:59:00 PM
Surr: 2,4,6-Tribromophenol	66.1	19-122		%REC	5	5/15/2011 9:59:00 PM
Surr: 2-Fluorobiphenyl	49.0	30-115		%REC	5	5/15/2011 9:59:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation **Collection Date:** 4/29/2011 9:25:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-005 **Matrix:** SOLID  
**Client Sample ID** Sed 5 (W. State Rd.-W. of East Trench)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Surr: 2-Fluorophenol	34.2	25-121	%REC		5	5/15/2011 9:59:00 PM
Surr: Nitrobenzene-d5	35.3	23-120	%REC		5	5/15/2011 9:59:00 PM
Surr: Phenol-d6	44.8	24-113	%REC		5	5/15/2011 9:59:00 PM
Surr: Terphenyl-d14	71.9	18-137	%REC		5	5/15/2011 9:59:00 PM
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1-Trichloroethane	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
1,1,2,2-Tetrachloroethane	0.635	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
1,1,2-Trichloroethane	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
1,1-Dichloroethane	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
1,1-Dichloroethene	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
1,2-Dichloroethane	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
1,2-Dichloropropane	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
2-Hexanone	ND	9.89	mg/Kg		98.9	5/2/2011 4:21:00 PM
4-Methyl-2-pentanone	ND	1.98	mg/Kg		98.9	5/2/2011 4:21:00 PM
Acetone	ND	9.89	mg/Kg		98.9	5/2/2011 4:21:00 PM
Benzene	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Bromodichloromethane	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Bromoform	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Bromomethane	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Carbon disulfide	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Carbon tetrachloride	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Chlorobenzene	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Chloroethane	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Chloroform	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Chloromethane	ND	0.989	mg/Kg		98.9	5/2/2011 4:21:00 PM
cis-1,2-Dichloroethene	8.41	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
cis-1,3-Dichloropropene	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Dibromochloromethane	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
Ethylbenzene	ND	0.494	mg/Kg		98.9	5/2/2011 4:21:00 PM
m,p-Xylene	ND	0.989	mg/Kg		98.9	5/2/2011 4:21:00 PM
Methyl ethyl ketone	ND	1.98	mg/Kg		98.9	5/2/2011 4:21:00 PM
Methylene chloride	ND	1.98	mg/Kg		98.9	5/2/2011 4:21:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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# Analytical Report

(consolidated)

1104792

WO#:

5/17/2011

Date Reported

5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-005  
**Client Sample ID** Sed 5 (W. State Rd.)

Collection Date: 4/29/2011 9:25:00 AM

### Matrix: SOLID

**Client Sample ID** Sed 5 (W. State Rd.-W. of East Trench)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: AC</b>
o-Xylene	ND	0.494		mg/Kg	98.9	5/2/2011 4:21:00 PM
Styrene	ND	0.494		mg/Kg	98.9	5/2/2011 4:21:00 PM
Tetrachloroethene	1.30	0.494		mg/Kg	98.9	5/2/2011 4:21:00 PM
Toluene	ND	0.494		mg/Kg	98.9	5/2/2011 4:21:00 PM
trans-1,2-Dichloroethene	0.457	0.198		mg/Kg	98.9	5/2/2011 4:21:00 PM
trans-1,3-Dichloropropene	ND	0.494		mg/Kg	98.9	5/2/2011 4:21:00 PM
Trichloroethene	1.48	0.494		mg/Kg	98.9	5/2/2011 4:21:00 PM
Vinyl acetate	ND	0.989		mg/Kg	98.9	5/2/2011 4:21:00 PM
Vinyl chloride	0.603	0.494		mg/Kg	98.9	5/2/2011 4:21:00 PM
Surr: 4-Bromofluorobenzene	111	74-121		%REC	98.9	5/2/2011 4:21:00 PM
Surr: Dibromofluoromethane	89.9	80-120		%REC	98.9	5/2/2011 4:21:00 PM
Surr: Toluene-d8	105	81-117		%REC	98.9	5/2/2011 4:21:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-006  
**Client Sample ID** Sed 6 (W. State Rd.-E. of West Trench)

**Collection Date:** 4/29/2011 9:30:00 AM

**Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8270C</b>		Analyst: <b>AC</b>
1,2,4-Trichlorobenzene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
1,2-Dichlorobenzene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
1,3-Dichlorobenzene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
1,4-Dichlorobenzene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2,4,5-Trichlorophenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2,4,6-Trichlorophenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2,4-Dichlorophenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2,4-Dimethylphenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2,4-Dinitrophenol	ND	4.41		mg/Kg	1	5/15/2011 10:45:00 PM
2,4-Dinitrotoluene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2,6-Dinitrotoluene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2-Choronaphthalene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2-Chlorophenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2-Methylnaphthalene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2-Methylphenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
2-Nitroaniline	ND	4.41		mg/Kg	1	5/15/2011 10:45:00 PM
2-Nitrophenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
3&4 Methylphenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
3,3'-Dichlorobenzidine	ND	1.71		mg/Kg	1	5/15/2011 10:45:00 PM
3-Nitroaniline	ND	4.41		mg/Kg	1	5/15/2011 10:45:00 PM
4,6-Dinitro-2-methylphenol	ND	4.41		mg/Kg	1	5/15/2011 10:45:00 PM
4-Bromophenyl phenyl ether	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
4-Chloro-3-methylphenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
4-Chloroaniline	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
4-Chlorophenyl phenyl ether	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
4-Nitroaniline	ND	1.71		mg/Kg	1	5/15/2011 10:45:00 PM
4-Nitrophenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Acenaphthene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Acenaphthylene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Anthracene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Benzo (a) anthracene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Benzo(a)pyrene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Benzo(b)fluoranthene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Benzo(g,h,i)perylene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-006  
**Client Sample ID** Sed 6 (W. State Rd.-E. of West Trench)

**Collection Date:** 4/29/2011 9:30:00 AM

**Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Benzo(k)fluoranthene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Benzoic acid	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Benzyl alcohol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Bis(2-chloroethoxy)methane	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Bis(2-chloroethyl) ether	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Bis(2-chloroisopropyl) ether	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Bis(2-ethylhexyl) phthalate	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Butyl benzyl phthalate	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Chrysene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Dibenz(a,h)anthracene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Dibenzofuran	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Diethyl phthalate	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Dimethyl phthalate	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Di-n-butyl phthalate	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Di-n-octyl phthalate	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Fluoranthene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Fluorene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Hexachlorobenzene	4.44	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Hexachlorobutadiene	1.35	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Hexachlorocyclopentadiene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Hexachloroethane	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Indeno(1,2,3-cd)pyrene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Isophorone	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Naphthalene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Nitrobenzene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
N-Nitrosodi-n-propylamine	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
N-Nitrosodiphenylamine	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Pentachlorophenol	ND	4.41		mg/Kg	1	5/15/2011 10:45:00 PM
Phenanthrene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Phenol	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Pyrene	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Pyridine	ND	0.856		mg/Kg	1	5/15/2011 10:45:00 PM
Surr: 2,4,6-Tribromophenol	56.4	19-122		%REC	1	5/15/2011 10:45:00 PM
Surr: 2-Fluorobiphenyl	36.3	30-115		%REC	1	5/15/2011 10:45:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:30:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-006                           **Matrix:** SOLID  
**Client Sample ID** Sed 6 (W. State Rd.-E. of West Trench)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Surr: 2-Fluorophenol	25.5	25-121	%REC		1	5/15/2011 10:45:00 PM
Surr: Nitrobenzene-d5	26.1	23-120	%REC		1	5/15/2011 10:45:00 PM
Surr: Phenol-d6	35.0	24-113	%REC		1	5/15/2011 10:45:00 PM
Surr: Terphenyl-d14	61.6	18-137	%REC		1	5/15/2011 10:45:00 PM
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1-Trichloroethane	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
1,1,2,2-Tetrachloroethane	23.2	4.84	mg/Kg		969	5/3/2011 12:35:00 PM
1,1,2-Trichloroethane	0.452	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
1,1-Dichloroethane	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
1,1-Dichloroethene	0.0671	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
1,2-Dichloroethane	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
1,2-Dichloropropane	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
2-Hexanone	ND	0.463	mg/Kg		4.63	4/29/2011 6:58:00 PM
4-Methyl-2-pentanone	ND	0.0926	mg/Kg		4.63	4/29/2011 6:58:00 PM
Acetone	ND	0.463	mg/Kg		4.63	4/29/2011 6:58:00 PM
Benzene	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Bromodichloromethane	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Bromoform	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Bromomethane	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Carbon disulfide	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Carbon tetrachloride	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Chlorobenzene	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Chloroethane	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Chloroform	0.105	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Chloromethane	ND	0.0463	mg/Kg		4.63	4/29/2011 6:58:00 PM
cis-1,2-Dichloroethene	24.4	4.84	mg/Kg		969	5/3/2011 12:35:00 PM
cis-1,3-Dichloropropene	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Dibromochloromethane	0.201	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
Ethylbenzene	ND	0.0232	mg/Kg		4.63	4/29/2011 6:58:00 PM
m,p-Xylene	ND	0.0463	mg/Kg		4.63	4/29/2011 6:58:00 PM
Methyl ethyl ketone	ND	0.0926	mg/Kg		4.63	4/29/2011 6:58:00 PM
Methylene chloride	ND	0.0926	mg/Kg		4.63	4/29/2011 6:58:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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TEL: 216 663 0808 FAX: 216 663 0656  
Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

# Analytical Report

(consolidated)

WO#: 1104792

Date Reported: **5/17/2011**

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-006  
**Client Sample ID** Sed 6 (W. State Rd.-E. of West Trench)

Collection Date: 4/29/2011 9:30:00 AM

### Matrix: SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: AC</b>
o-Xylene	ND	0.0232		mg/Kg	4.63	4/29/2011 6:58:00 PM
Styrene	ND	0.0232		mg/Kg	4.63	4/29/2011 6:58:00 PM
Tetrachloroethene	0.124	0.0232		mg/Kg	4.63	4/29/2011 6:58:00 PM
Toluene	ND	0.0232		mg/Kg	4.63	4/29/2011 6:58:00 PM
trans-1,2-Dichloroethene	0.324	0.0232		mg/Kg	4.63	4/29/2011 6:58:00 PM
trans-1,3-Dichloropropene	ND	0.0232		mg/Kg	4.63	4/29/2011 6:58:00 PM
Trichloroethene	0.411	0.0232		mg/Kg	4.63	4/29/2011 6:58:00 PM
Vinyl acetate	ND	0.0463		mg/Kg	4.63	4/29/2011 6:58:00 PM
Vinyl chloride	1.38	0.484		mg/Kg	96.9	5/2/2011 4:45:00 PM
Surr: 4-Bromofluorobenzene	102	74-121		%REC	4.63	4/29/2011 6:58:00 PM
Surr: Dibromofluoromethane	108	80-120		%REC	4.63	4/29/2011 6:58:00 PM
Surr: Toluene-d8	103	81-117		%REC	4.63	4/29/2011 6:58:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
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**Analytical Report**  
(consolidated)  
WO#: **1104792**  
Date Reported: **5/17/2011**

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:45:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-007                           **Matrix:** SOLID  
**Client Sample ID** Sed 7 up (E. State Rd.-25' East of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
1,2,4-Trichlorobenzene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
1,2-Dichlorobenzene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
1,3-Dichlorobenzene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
1,4-Dichlorobenzene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2,4,5-Trichlorophenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2,4,6-Trichlorophenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2,4-Dichlorophenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2,4-Dimethylphenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2,4-Dinitrophenol	ND	23.5		mg/Kg	5	5/15/2011 11:30:00 PM
2,4-Dinitrotoluene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2,6-Dinitrotoluene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2-Choronaphthalene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2-Chlorophenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2-Methylnaphthalene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2-Methylphenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
2-Nitroaniline	ND	23.5		mg/Kg	5	5/15/2011 11:30:00 PM
2-Nitrophenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
3&4 Methylphenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
3,3'-Dichlorobenzidine	ND	9.11		mg/Kg	5	5/15/2011 11:30:00 PM
3-Nitroaniline	ND	23.5		mg/Kg	5	5/15/2011 11:30:00 PM
4,6-Dinitro-2-methylphenol	ND	23.5		mg/Kg	5	5/15/2011 11:30:00 PM
4-Bromophenyl phenyl ether	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
4-Chloro-3-methylphenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
4-Chloroaniline	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
4-Chlorophenyl phenyl ether	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
4-Nitroaniline	ND	9.11		mg/Kg	5	5/15/2011 11:30:00 PM
4-Nitrophenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Acenaphthene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Acenaphthylene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Anthracene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Benzo (a) anthracene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Benzo(a)pyrene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Benzo(b)fluoranthene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Benzo(g,h,i)perylene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:45:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-007                           **Matrix:** SOLID  
**Client Sample ID** Sed 7 up (E. State Rd.-25' East of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Benzo(k)fluoranthene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Benzoic acid	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Benzyl alcohol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Bis(2-chloroethoxy)methane	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Bis(2-chloroethyl) ether	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Bis(2-chloroisopropyl) ether	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Bis(2-ethylhexyl) phthalate	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Butyl benzyl phthalate	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Chrysene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Dibenz(a,h)anthracene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Dibenzofuran	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Diethyl phthalate	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Dimethyl phthalate	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Di-n-butyl phthalate	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Di-n-octyl phthalate	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Fluoranthene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Fluorene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Hexachlorobenzene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Hexachlorobutadiene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Hexachlorocyclopentadiene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Hexachloroethane	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Indeno(1,2,3-cd)pyrene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Isophorone	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Naphthalene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Nitrobenzene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
N-Nitrosodi-n-propylamine	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
N-Nitrosodiphenylamine	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Pentachlorophenol	ND	23.5		mg/Kg	5	5/15/2011 11:30:00 PM
Phenanthrene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Phenol	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Pyrene	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Pyridine	ND	4.55		mg/Kg	5	5/15/2011 11:30:00 PM
Surr: 2,4,6-Tribromophenol	58.5	19-122		%REC	5	5/15/2011 11:30:00 PM
Surr: 2-Fluorobiphenyl	57.5	30-115		%REC	5	5/15/2011 11:30:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



Precision Analytical, Inc.  
4450 Johnston Parkway Unit B  
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TEL: 216 663 0808 FAX: 216 663 0656  
Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation **Collection Date:** 4/29/2011 9:45:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-007 **Matrix:** SOLID  
**Client Sample ID** Sed 7 up (E. State Rd.-25' East of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Surr: 2-Fluorophenol	54.4	25-121	%REC		5	5/15/2011 11:30:00 PM
Surr: Nitrobenzene-d5	50.7	23-120	%REC		5	5/15/2011 11:30:00 PM
Surr: Phenol-d6	59.8	24-113	%REC		5	5/15/2011 11:30:00 PM
Surr: Terphenyl-d14	66.7	18-137	%REC		5	5/15/2011 11:30:00 PM
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1-Trichloroethane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
1,1,2-Trichloroethane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
1,1-Dichloroethane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
1,1-Dichloroethene	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
1,2-Dichloroethane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
1,2-Dichloropropane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
2-Hexanone	ND	0.225	mg/Kg		2.25	4/29/2011 6:34:00 PM
4-Methyl-2-pentanone	ND	0.0450	mg/Kg		2.25	4/29/2011 6:34:00 PM
Acetone	ND	0.225	mg/Kg		2.25	4/29/2011 6:34:00 PM
Benzene	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Bromodichloromethane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Bromoform	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Bromomethane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Carbon disulfide	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Carbon tetrachloride	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Chlorobenzene	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Chloroethane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Chloroform	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Chloromethane	ND	0.0225	mg/Kg		2.25	4/29/2011 6:34:00 PM
cis-1,2-Dichloroethene	0.0331	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
cis-1,3-Dichloropropene	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Dibromochloromethane	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
Ethylbenzene	ND	0.0112	mg/Kg		2.25	4/29/2011 6:34:00 PM
m,p-Xylene	ND	0.0225	mg/Kg		2.25	4/29/2011 6:34:00 PM
Methyl ethyl ketone	ND	0.0450	mg/Kg		2.25	4/29/2011 6:34:00 PM
Methylene chloride	ND	0.0450	mg/Kg		2.25	4/29/2011 6:34:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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# Analytical Report

(consolidated)

WO#: **1104792**  
Date Reported: **5/17/2011**

**CLIENT:** Detrex Corporation **Collection Date:** 4/29/2011 9:45:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-007 **Matrix:** SOLID  
**Client Sample ID** Sed 7 up (E. State Rd.-25' East of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260B</b>		Analyst: AC	
o-Xylene	ND	0.0112	mg/Kg	2.25	4/29/2011 6:34:00 PM	
Styrene	ND	0.0112	mg/Kg	2.25	4/29/2011 6:34:00 PM	
Tetrachloroethene	ND	0.0112	mg/Kg	2.25	4/29/2011 6:34:00 PM	
Toluene	ND	0.0112	mg/Kg	2.25	4/29/2011 6:34:00 PM	
trans-1,2-Dichloroethene	ND	0.0112	mg/Kg	2.25	4/29/2011 6:34:00 PM	
trans-1,3-Dichloropropene	ND	0.0112	mg/Kg	2.25	4/29/2011 6:34:00 PM	
Trichloroethene	0.0670	0.0112	mg/Kg	2.25	4/29/2011 6:34:00 PM	
Vinyl acetate	ND	0.0225	mg/Kg	2.25	4/29/2011 6:34:00 PM	
Vinyl chloride	ND	0.0112	mg/Kg	2.25	4/29/2011 6:34:00 PM	
Surr: 4-Bromofluorobenzene	101	74-121	%REC	2.25	4/29/2011 6:34:00 PM	
Surr: Dibromofluoromethane	104	80-120	%REC	2.25	4/29/2011 6:34:00 PM	
Surr: Toluene-d8	102	81-117	%REC	2.25	4/29/2011 6:34:00 PM	

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
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**Analytical Report**  
(consolidated)  
WO#: **1104792**  
Date Reported: **5/17/2011**

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:50:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-008                           **Matrix:** SOLID  
**Client Sample ID** Sed 8 up(E. State Rd.-50' East of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8270C</b>		Analyst: <b>AC</b>
1,2,4-Trichlorobenzene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
1,2-Dichlorobenzene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
1,3-Dichlorobenzene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
1,4-Dichlorobenzene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2,4,5-Trichlorophenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2,4,6-Trichlorophenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2,4-Dichlorophenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2,4-Dimethylphenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2,4-Dinitrophenol	ND	21.9		mg/Kg	5	5/16/2011 12:15:00 AM
2,4-Dinitrotoluene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2,6-Dinitrotoluene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2-Chloronaphthalene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2-Chlorophenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2-Methylnaphthalene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2-Methylphenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
2-Nitroaniline	ND	21.9		mg/Kg	5	5/16/2011 12:15:00 AM
2-Nitrophenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
3&4 Methylphenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
3,3'-Dichlorobenzidine	ND	8.48		mg/Kg	5	5/16/2011 12:15:00 AM
3-Nitroaniline	ND	21.9		mg/Kg	5	5/16/2011 12:15:00 AM
4,6-Dinitro-2-methylphenol	ND	21.9		mg/Kg	5	5/16/2011 12:15:00 AM
4-Bromophenyl phenyl ether	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
4-Chloro-3-methylphenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
4-Chloroaniline	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
4-Chlorophenyl phenyl ether	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
4-Nitroaniline	ND	8.48		mg/Kg	5	5/16/2011 12:15:00 AM
4-Nitrophenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Acenaphthene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Acenaphthylene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Anthracene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Benzo (a) anthracene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Benzo(a)pyrene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Benzo(b)fluoranthene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Benzo(g,h,i)perylene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-008  
**Client Sample ID** Sed 8 up(E. State Rd.-50' East of Culvert)

**Collection Date:** 4/29/2011 9:50:00 AM

**Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Benzo(k)fluoranthene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Benzoic acid	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Benzyl alcohol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Bis(2-chloroethoxy)methane	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Bis(2-chloroethyl) ether	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Bis(2-chloroisopropyl) ether	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Bis(2-ethylhexyl) phthalate	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Butyl benzyl phthalate	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Chrysene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Dibenz(a,h)anthracene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Dibenzofuran	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Diethyl phthalate	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Dimethyl phthalate	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Di-n-butyl phthalate	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Di-n-octyl phthalate	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Fluoranthene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Fluorene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Hexachlorobenzene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Hexachlorobutadiene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Hexachlorocyclopentadiene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Hexachloroethane	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Indeno(1,2,3-cd)pyrene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Isophorone	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Naphthalene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Nitrobenzene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
N-Nitrosodi-n-propylamine	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
N-Nitrosodiphenylamine	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Pentachlorophenol	ND	21.9		mg/Kg	5	5/16/2011 12:15:00 AM
Phenanthrene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Phenol	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Pyrene	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Pyridine	ND	4.24		mg/Kg	5	5/16/2011 12:15:00 AM
Surr: 2,4,6-Tribromophenol	71.6	19-122		%REC	5	5/16/2011 12:15:00 AM
Surr: 2-Fluorobiphenyl	65.2	30-115		%REC	5	5/16/2011 12:15:00 AM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
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	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:50:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-008                           **Matrix:** SOLID  
**Client Sample ID** Sed 8 up(E. State Rd.-50' East of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Surr: 2-Fluorophenol	57.1	25-121	%REC		5	5/16/2011 12:15:00 AM
Surr: Nitrobenzene-d5	56.0	23-120	%REC		5	5/16/2011 12:15:00 AM
Surr: Phenol-d6	65.0	24-113	%REC		5	5/16/2011 12:15:00 AM
Surr: Terphenyl-d14	76.6	18-137	%REC		5	5/16/2011 12:15:00 AM
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1-Trichloroethane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
1,1,2-Trichloroethane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
1,1-Dichloroethane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
1,1-Dichloroethene	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
1,2-Dichloroethane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
1,2-Dichloropropane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
2-Hexanone	ND	0.286	mg/Kg		2.86	4/29/2011 6:10:00 PM
4-Methyl-2-pentanone	ND	0.0572	mg/Kg		2.86	4/29/2011 6:10:00 PM
Acetone	ND	0.286	mg/Kg		2.86	4/29/2011 6:10:00 PM
Benzene	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Bromodichloromethane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Bromoform	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Bromomethane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Carbon disulfide	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Carbon tetrachloride	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Chlorobenzene	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Chloroethane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Chloroform	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Chloromethane	ND	0.0286	mg/Kg		2.86	4/29/2011 6:10:00 PM
cis-1,2-Dichloroethene	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
cis-1,3-Dichloropropene	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Dibromochloromethane	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
Ethylbenzene	ND	0.0143	mg/Kg		2.86	4/29/2011 6:10:00 PM
m,p-Xylene	ND	0.0286	mg/Kg		2.86	4/29/2011 6:10:00 PM
Methyl ethyl ketone	ND	0.0572	mg/Kg		2.86	4/29/2011 6:10:00 PM
Methylene chloride	ND	0.0572	mg/Kg		2.86	4/29/2011 6:10:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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# Analytical Report

(consolidated)

WO#: **1104792**  
Date Reported: **5/17/2011**

**CLIENT:** Detrex Corporation **Collection Date:** 4/29/2011 9:50:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-008 **Matrix:** SOLID  
**Client Sample ID** Sed 8 up(E. State Rd.-50' East of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: AC</b>
o-Xylene	ND	0.0143		mg/Kg	2.86	4/29/2011 6:10:00 PM
Styrene	ND	0.0143		mg/Kg	2.86	4/29/2011 6:10:00 PM
Tetrachloroethene	ND	0.0143		mg/Kg	2.86	4/29/2011 6:10:00 PM
Toluene	ND	0.0143		mg/Kg	2.86	4/29/2011 6:10:00 PM
trans-1,2-Dichloroethene	ND	0.0143		mg/Kg	2.86	4/29/2011 6:10:00 PM
trans-1,3-Dichloropropene	ND	0.0143		mg/Kg	2.86	4/29/2011 6:10:00 PM
Trichloroethene	ND	0.0143		mg/Kg	2.86	4/29/2011 6:10:00 PM
Vinyl acetate	ND	0.0286		mg/Kg	2.86	4/29/2011 6:10:00 PM
Vinyl chloride	ND	0.0143		mg/Kg	2.86	4/29/2011 6:10:00 PM
Surr: 4-Bromofluorobenzene	102	74-121		%REC	2.86	4/29/2011 6:10:00 PM
Surr: Dibromofluoromethane	108	80-120		%REC	2.86	4/29/2011 6:10:00 PM
Surr: Toluene-d8	102	81-117		%REC	2.86	4/29/2011 6:10:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
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Cleveland, OH 44128  
TEL: 216 663 0808 FAX: 216 663 0656  
Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

Analytical Report  
(consolidated)  
WO#: 1104792  
Date Reported: 5/17/2011

**CLIENT:** Detrex Corporation                   **Collection Date:** 4/29/2011 9:55:00 AM  
**Project:** Sediment Samples  
**Lab ID:** 1104792-009                           **Matrix:** SOLID  
**Client Sample ID** Sed 9 (E. State Rd.-70' East of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
1,2,4-Trichlorobenzene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
1,2-Dichlorobenzene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
1,3-Dichlorobenzene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
1,4-Dichlorobenzene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2,4,5-Trichlorophenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2,4,6-Trichlorophenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2,4-Dichlorophenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2,4-Dimethylphenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2,4-Dinitrophenol	ND	4.61		mg/Kg	1	5/16/2011 1:00:00 AM
2,4-Dinitrotoluene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2,6-Dinitrotoluene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2-Chloronaphthalene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2-Chlorophenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2-Methylnaphthalene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2-Methylphenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
2-Nitroaniline	ND	4.61		mg/Kg	1	5/16/2011 1:00:00 AM
2-Nitrophenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
3&4 Methylphenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
3,3'-Dichlorobenzidine	ND	1.79		mg/Kg	1	5/16/2011 1:00:00 AM
3-Nitroaniline	ND	4.61		mg/Kg	1	5/16/2011 1:00:00 AM
4,6-Dinitro-2-methylphenol	ND	4.61		mg/Kg	1	5/16/2011 1:00:00 AM
4-Bromophenyl phenyl ether	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
4-Chloro-3-methylphenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
4-Chloroaniline	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
4-Chlorophenyl phenyl ether	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
4-Nitroaniline	ND	1.79		mg/Kg	1	5/16/2011 1:00:00 AM
4-Nitrophenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Acenaphthene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Acenaphthylene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Anthracene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Benzo (a) anthracene	1.01	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Benzo(a)pyrene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Benzo(b)fluoranthene	1.05	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Benzo(g,h,i)perylene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
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(consolidated)  
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**CLIENT:** Detrex Corporation  
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**Lab ID:** 1104792-009  
**Client Sample ID** Sed 9 (E. State Rd.-70' East of Culvert)

**Collection Date:** 4/29/2011 9:55:00 AM

**Matrix:** SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8270C</b>		Analyst: <b>AC</b>
Benzo(k)fluoranthene	1.16	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Benzoic acid	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Benzyl alcohol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Bis(2-chloroethoxy)methane	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Bis(2-chloroethyl) ether	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Bis(2-chloroisopropyl) ether	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Bis(2-ethylhexyl) phthalate	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Butyl benzyl phthalate	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Chrysene	1.02	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Dibenz(a,h)anthracene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Dibenzofuran	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Diethyl phthalate	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Dimethyl phthalate	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Di-n-butyl phthalate	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Di-n-octyl phthalate	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Fluoranthene	1.73	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Fluorene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Hexachlorobenzene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Hexachlorobutadiene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Hexachlorocyclopentadiene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Hexachloroethane	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Indeno(1,2,3-cd)pyrene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Isophorone	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Naphthalene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Nitrobenzene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
N-Nitrosodi-n-propylamine	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
N-Nitrosodiphenylamine	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Pentachlorophenol	ND	4.61		mg/Kg	1	5/16/2011 1:00:00 AM
Phenanthrene	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Phenol	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Pyrene	1.64	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Pyridine	ND	0.895		mg/Kg	1	5/16/2011 1:00:00 AM
Surr: 2,4,6-Tribromophenol	72.2	19-122		%REC	1	5/16/2011 1:00:00 AM
Surr: 2-Fluorobiphenyl	58.2	30-115		%REC	1	5/16/2011 1:00:00 AM

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**Project:** Sediment Samples  
**Lab ID:** 1104792-009 **Matrix:** SOLID  
**Client Sample ID** Sed 9 (E. State Rd.-70' East of Culvert)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL SEMI-VOLATILES, SOLID SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Surr: 2-Fluorophenol	55.0	25-121	%REC		1	5/16/2011 1:00:00 AM
Surr: Nitrobenzene-d5	51.4	23-120	%REC		1	5/16/2011 1:00:00 AM
Surr: Phenol-d6	62.9	24-113	%REC		1	5/16/2011 1:00:00 AM
Surr: Terphenyl-d14	77.4	18-137	%REC		1	5/16/2011 1:00:00 AM
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>						
1,1,1-Trichloroethane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
1,1,2-Trichloroethane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
1,1-Dichloroethane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
1,1-Dichloroethene	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
1,2-Dichloroethane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
1,2-Dichloropropane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
2-Hexanone	ND	0.338	mg/Kg		3.38	4/29/2011 5:46:00 PM
4-Methyl-2-pentanone	ND	0.0676	mg/Kg		3.38	4/29/2011 5:46:00 PM
Acetone	ND	0.338	mg/Kg		3.38	4/29/2011 5:46:00 PM
Benzene	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Bromodichloromethane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Bromoform	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Bromomethane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Carbon disulfide	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Carbon tetrachloride	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Chlorobenzene	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Chloroethane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Chloroform	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Chloromethane	ND	0.0338	mg/Kg		3.38	4/29/2011 5:46:00 PM
cis-1,2-Dichloroethene	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
cis-1,3-Dichloropropene	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Dibromochloromethane	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
Ethylbenzene	ND	0.0169	mg/Kg		3.38	4/29/2011 5:46:00 PM
m,p-Xylene	ND	0.0338	mg/Kg		3.38	4/29/2011 5:46:00 PM
Methyl ethyl ketone	ND	0.0676	mg/Kg		3.38	4/29/2011 5:46:00 PM
Methylene chloride	ND	0.0676	mg/Kg		3.38	4/29/2011 5:46:00 PM

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# Analytical Report

(consolidated)

WO#: 1104792

Date Reported: **5/17/2011**

**CLIENT:** Detrex Corporation  
**Project:** Sediment Samples  
**Lab ID:** 1104792-009  
**Client Sample ID** Sed 9 (E. State Rd.-70' East of Culvert)

Collection Date: 4/29/2011 9:55:00 AM

### Matrix: SOLID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, SOLID VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: AC</b>
o-Xylene	ND	0.0169		mg/Kg	3.38	4/29/2011 5:46:00 PM
Styrene	ND	0.0169		mg/Kg	3.38	4/29/2011 5:46:00 PM
Tetrachloroethene	ND	0.0169		mg/Kg	3.38	4/29/2011 5:46:00 PM
Toluene	ND	0.0169		mg/Kg	3.38	4/29/2011 5:46:00 PM
trans-1,2-Dichloroethene	ND	0.0169		mg/Kg	3.38	4/29/2011 5:46:00 PM
trans-1,3-Dichloropropene	ND	0.0169		mg/Kg	3.38	4/29/2011 5:46:00 PM
Trichloroethene	0.0269	0.0169		mg/Kg	3.38	4/29/2011 5:46:00 PM
Vinyl acetate	ND	0.0338		mg/Kg	3.38	4/29/2011 5:46:00 PM
Vinyl chloride	ND	0.0169		mg/Kg	3.38	4/29/2011 5:46:00 PM
Surr: 4-Bromofluorobenzene	93.8	74-121		%REC	3.38	4/29/2011 5:46:00 PM
Surr: Dibromofluoromethane	109	80-120		%REC	3.38	4/29/2011 5:46:00 PM
Surr: Toluene-d8	102	81-117		%REC	3.38	4/29/2011 5:46:00 PM

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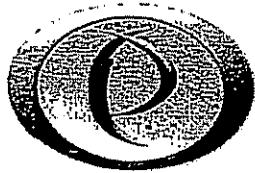
PRECISION ANALYTICAL, INC.,  
1450 WASHINGTON AVENUE, UNIT D, CLOVELL, AND OH 44420

4450 JOHNSTON PARKWAY, UNIT B • CLEVELAND, OH 44128  
(216) 663-0808 • FAX (216) 663-0656

**LABORATORY WORK ORDER #**

1104792

REPORT TO: CONTACT & COMPANY ADDRESS CITY				INVOICE TO: NAME ADDRESS CITY																																																																																																																									
PHONE NO.	STATE	ZIP CODE	PHONE NO.	STATE	ZIP CODE	FAX NO.	QUOTE #:																																																																																																																						
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Special Instructions & QC Requirements (additional charge for QC): <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Return To Client				<table border="1"> <thead> <tr> <th rowspan="2">NO.</th> <th rowspan="2">CUSTOMER SAMPLE IDENTIFICATION</th> <th colspan="2">TEMP (°C)</th> <th colspan="2">VISIBLE ICE (circle) <input checked="" type="radio"/> YES <input type="radio"/> NO</th> <th colspan="2">MATRIX</th> </tr> <tr> <th>SAMPLE DATE</th> <th>SAMPLE TIME</th> <th>Comp Grab</th> <th>No. OF CONT.</th> <th>PCBs</th> <th>8260 (VDC3)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sed 1 (W. State Rd - South side culvert)</td> <td>4/29/11</td> <td>0915</td> <td>✓</td> <td>1</td> <td>✓</td> <td>8270 (VDC3)</td> </tr> <tr> <td>2</td> <td>Sed 2 (W State Rd - Lip of culvert)</td> <td>4/29/11</td> <td>0917</td> <td>✓</td> <td>1</td> <td>✓</td> <td></td> </tr> <tr> <td>3</td> <td>Sed 3 (W State Rd - Middle 25' W culvert)</td> <td>4/29/11</td> <td>0920</td> <td>✓</td> <td>1</td> <td>✓</td> <td></td> </tr> <tr> <td>4</td> <td>Sed 4 (W. State Rd - near stable S. culvert)</td> <td>4/29/11</td> <td>0922</td> <td>✓</td> <td>1</td> <td>✓</td> <td>-3</td> </tr> <tr> <td>5</td> <td>Sed 5 (W. State Rd - W. of East Trench)</td> <td>4/29/11</td> <td>0925</td> <td>✓</td> <td>1</td> <td>✓</td> <td>-4</td> </tr> <tr> <td>6</td> <td>Sed 6 (W State Rd - End West Trench)</td> <td>4/29/11</td> <td>0930</td> <td>✓</td> <td>1</td> <td>✓</td> <td>-5</td> </tr> <tr> <td>7</td> <td>Sed 7 up (E. State Rd - 25' East of culvert)</td> <td>4/29/11</td> <td>0945</td> <td>✓</td> <td>1</td> <td>✓</td> <td>-6</td> </tr> <tr> <td>8</td> <td>Sed 8 up (E. State Rd - 50' East of culvert)</td> <td>4/29/11</td> <td>0950</td> <td>✓</td> <td>1</td> <td>✓</td> <td>-7</td> </tr> <tr> <td>9</td> <td>Sed 9 up (E. State Rd - 70' East of culvert)</td> <td>4/29/11</td> <td>0955</td> <td>✓</td> <td>1</td> <td>✓</td> <td>-8</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-9</td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				NO.	CUSTOMER SAMPLE IDENTIFICATION	TEMP (°C)		VISIBLE ICE (circle) <input checked="" type="radio"/> YES <input type="radio"/> NO		MATRIX		SAMPLE DATE	SAMPLE TIME	Comp Grab	No. OF CONT.	PCBs	8260 (VDC3)	1	Sed 1 (W. State Rd - South side culvert)	4/29/11	0915	✓	1	✓	8270 (VDC3)	2	Sed 2 (W State Rd - Lip of culvert)	4/29/11	0917	✓	1	✓		3	Sed 3 (W State Rd - Middle 25' W culvert)	4/29/11	0920	✓	1	✓		4	Sed 4 (W. State Rd - near stable S. culvert)	4/29/11	0922	✓	1	✓	-3	5	Sed 5 (W. State Rd - W. of East Trench)	4/29/11	0925	✓	1	✓	-4	6	Sed 6 (W State Rd - End West Trench)	4/29/11	0930	✓	1	✓	-5	7	Sed 7 up (E. State Rd - 25' East of culvert)	4/29/11	0945	✓	1	✓	-6	8	Sed 8 up (E. State Rd - 50' East of culvert)	4/29/11	0950	✓	1	✓	-7	9	Sed 9 up (E. State Rd - 70' East of culvert)	4/29/11	0955	✓	1	✓	-8	10							-9	11								12								13							
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7	Sed 7 up (E. State Rd - 25' East of culvert)	4/29/11	0945	✓	1	✓	-6																																																																																																																						
8	Sed 8 up (E. State Rd - 50' East of culvert)	4/29/11	0950	✓	1	✓	-7																																																																																																																						
9	Sed 9 up (E. State Rd - 70' East of culvert)	4/29/11	0955	✓	1	✓	-8																																																																																																																						
10							-9																																																																																																																						
11																																																																																																																													
12																																																																																																																													
13																																																																																																																													
Samples: (Signature)		Relinquished by: (Signature)		Date 4/29/11	Time Received by: (Signature)	Date 4/29/11	Time Relinquished by: (Signature)																																																																																																																						
Received by: (Signature)		Relinquished by: (Signature)		Date 4/29/11	Time Received in laboratory by: (Signature)	Date 4/29/11	Time Date 4/29/11																																																																																																																						



**PRECISION**  
**ANALYTICAL INC.**

**Sample Receipt Checklist**

Form 244  
Rev#: 1  
5/21/10

Work Order No. 1104792

RUSH:  Yes  No  NA

Date & Time Received: 4/29/11 1330 Received By: CEU

Date & Time Logged In: 4/29/11 14:24 Logged In By: CEU

Date & Time Reviewed: 4/29/11 1019 Reviewed By: SW

Carrier Name:  PAI  UPS  FedEx  Client  Other \_\_\_\_\_

Samples Analyzed In House?  Yes  No Subbed To \_\_\_\_\_

Is Chain Of Custody Present?  Yes  No

Is Chain Of Custody Properly Filled Out?  Yes  No

Does Chain Of Custody Match Sample Labels?  Yes  No

Are Samples Past Hold Time?  Yes  No  NA

Are Samples In Proper Containers?  Yes  No Intact?  Yes  No

No. Of Containers? 9  Glass  Plastic  Baggie  VOA  Micro  Other \_\_\_\_\_

When Applicable, Is Headspace Present?  Yes  No

Matrix:  Aqueous  Liquid  Sludge  Solid  Oil  Drinking Water  Soil  Other \_\_\_\_\_

On Ice? 6 °C  Yes  No  NA

Are Samples Preserved?  Yes  No  NA

pH Results:

Metals _____	Hardness _____	<input type="checkbox"/> HNO <sub>3</sub>	CN _____	<input type="checkbox"/> NaOH	
COD _____	NH <sub>3</sub> _____	Phenol _____	TOC _____	TKN/TON _____	Phos _____ <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> No <sub>2</sub> No <sub>3</sub> _____
Sulfide _____	<input type="checkbox"/> NaOH & ZnAcetate		Other		

Field Data:  pH  Temp  Flow  TRC  TRC Low  Color  Odor  Turbidity  Other \_\_\_\_\_

Explanation of Comments & Problems:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ATTACHMENT 5**  
**DNAPL COLLECTION TRENCH SUMMARY TABLE**  
**AND ANALYTICAL RESULTS**

**Table 3**  
**Interceptor Trench Groundwater Laboratory Data Summary**  
**March 2010 and April 2011**  
**Detrex Corporation**  
**Ashtabula, Ohio**

Parameter	Units	DS Tributary East Trench (3/18/2010)	DS Tributary East Trench (4/28/2011)		DS Tributary West Trench (3/18/2010)	DS Tributary West Trench (4/28/2011)
<u>Volatile Organics</u>						
1,1,2,2-Tetrachloroethane	mg/L	<b>0.0302</b>	<b>0.4150</b>		<b>0.0107</b>	<b>6.97</b>
1,1,2-Trichloroethane	mg/L	<b>4.56</b>	<b>0.05</b>		<b>0.0025</b>	<b>0.964</b>
1,1-Dichloroethene	mg/L	<b>0.631</b>	0.025 U		<b>9.04</b>	<b>0.351</b>
Chloroform	mg/L	<b>0.278</b>	0.025 U		<b>2.07</b>	0.250 U
Chloromethane	mg/L	0.250 U	0.025 U		<b>0.502</b>	0.250 U
cis-1,2-Dichloroethene	mg/L	<b>0.0354</b>	<b>0.1400</b>		14	<b>36</b>
Tetrachloroethene	mg/L	<b>0.0067</b>	<b>0.0235</b>		<b>0.00205</b>	<b>3.15</b>
Trans-1,2-Dichloroethene	mg/L	<b>1.95</b>	<b>0.06</b>		<b>10.6</b>	0.250 U
Trichloroethene	mg/L	<b>0.0315</b>	<b>0.3850</b>		<b>0.0183</b>	<b>19.1</b>
Vinyl Chloride	mg/L	<b>0.89</b>	<b>0.06</b>		<b>10.8</b>	<b>8.4</b>

Notes:

**Bold** = The analyte was reported above detection limits

U = The analyte was analyzed for, but was not detected. Value shown is the sample reporting limit.



Precision Analytical, Inc.  
4450 Johnston Parkway Unit B  
Cleveland, OH 44128  
TEL: 216 663 0808 FAX: 216 663 0656  
Website: [www.precisionanalytical.com](http://www.precisionanalytical.com)

May 05, 2011

Sam Spain  
Detrex Corporation  
1100 N. State Road  
Ashtabula, OH 44004  
TEL: (440) 997-6131  
FAX: (440) 992-2904

RE: DS Tributary East & West

Order No.: 1104793

Dear Sam Spain:

Precision Analytical, Inc. received 2 sample(s) on 4/29/2011 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in an attached Case Narrative. Quality control data is within laboratory defined or method specified acceptance limits except if noted. Note that sample results reported relate only the samples as received at the laboratory.

Solid samples are reported in ug/Kg or mg/Kg as received, unless specified in the units as dry weight. Unless otherwise noted, results have not been background or blank corrected.

If you have any questions regarding these tests results, please feel free to call.

Certifications: Ohio EPA - 4041; NELAC NY - 11167; NELAC PA - 68-00434;  
W.Va DEP - 245; KY UST - 69

Sincerely,

A handwritten signature in black ink that reads "Scott Bolam".

Scott Bolam  
QA/QC Manager



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Analytical Report  
(consolidated)  
WO#: 1104793  
Date Reported: 5/5/2011

**CLIENT:** Detrex Corporation **Collection Date:** 4/28/2011 10:30:00 AM  
**Project:** DS Tributary East & West  
**Lab ID:** 1104793-001 **Matrix:** LIQUID  
**Client Sample ID** DS Tributary-East

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, LIQUID VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8260B</b>		<b>Analyst: AC</b>
1,1,1-Trichloroethane	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
1,1,2,2-Tetrachloroethane	0.415	0.250	mg/L	50	5/3/2011 11:48:00 AM	
1,1,2-Trichloroethane	0.0522	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
1,1-Dichloroethane	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
1,1-Dichloroethene	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
1,2-Dichloroethane	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
1,2-Dichloropropane	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
2-Hexanone	ND	0.0500	mg/L	5	5/2/2011 6:20:00 PM	
4-Methyl-2-pentanone	ND	0.100	mg/L	5	5/2/2011 6:20:00 PM	
Acetone	ND	0.250	mg/L	5	5/2/2011 6:20:00 PM	
Benzene	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Bromodichloromethane	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Bromoform	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Bromomethane	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Carbon disulfide	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Carbon tetrachloride	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Chlorobenzene	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Chloroethane	ND	0.0500	mg/L	5	5/2/2011 6:20:00 PM	
Chloroform	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Chloromethane	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
cis-1,2-Dichloroethene	0.814	0.250	mg/L	50	5/3/2011 11:48:00 AM	
cis-1,3-Dichloropropene	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Dibromochloromethane	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Ethylbenzene	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
m,p-Xylene	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Methyl ethyl ketone	ND	0.250	mg/L	5	5/2/2011 6:20:00 PM	
Methylene chloride	ND	0.0500	mg/L	5	5/2/2011 6:20:00 PM	
o-Xylene	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Styrene	ND	0.100	mg/L	5	5/2/2011 6:20:00 PM	
Tetrachloroethene	0.235	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Toluene	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
trans-1,2-Dichloroethene	0.0566	0.0500	mg/L	5	5/2/2011 6:20:00 PM	
trans-1,3-Dichloropropene	ND	0.0250	mg/L	5	5/2/2011 6:20:00 PM	
Trichloroethene	0.385	0.250	mg/L	50	5/3/2011 11:48:00 AM	

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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# Analytical Report

(consolidated)

WO#: 1104793

Date Reported: 5/5/2011

**CLIENT:** Detrex Corporation  
**Project:** DS Tributary East & West  
**Lab ID:** 1104793-001  
**Client Sample ID** DS Tributary-East

Collection Date: 4/28/2011 10:30:00 AM

## **Matrix: LIQUID**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, LIQUID VOLATILE ORGANIC COMPOUNDS</b>				<b>SW8260B</b>		<b>Analyst: AC</b>
Vinyl acetate	ND	0.0500		mg/L	5	5/2/2011 6:20:00 PM
Vinyl chloride	0.0571	0.0250		mg/L	5	5/2/2011 6:20:00 PM
Surr: 4-Bromofluorobenzene	104	86-115		%REC	5	5/2/2011 6:20:00 PM
Surr: Dibromofluoromethane	97.2	86-118		%REC	5	5/2/2011 6:20:00 PM
Surr: Toluene-d8	101	88-110		%REC	5	5/2/2011 6:20:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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Analytical Report  
(consolidated)  
WO#: 1104793  
Date Reported: 5/5/2011

**CLIENT:** Detrex Corporation  
**Project:** DS Tributary East & West  
**Lab ID:** 1104793-002  
**Client Sample ID** DS Tributary-West

**Collection Date:** 4/28/2011 10:45:00 AM

**Matrix:** LIQUID

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, LIQUID</b>						
<b>VOLATILE ORGANIC COMPOUNDS</b>						
				<b>SW8260B</b>		<b>Analyst: AC</b>
1,1,1-Trichloroethane	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
1,1,2,2-Tetrachloroethane	6.97	1.00	mg/L	200	5/2/2011 5:56:00 PM	
1,1,2-Trichloroethane	0.964	0.250	mg/L	50	5/2/2011 6:44:00 PM	
1,1-Dichloroethane	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
1,1-Dichloroethene	0.351	0.250	mg/L	50	5/2/2011 6:44:00 PM	
1,2-Dichloroethane	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
1,2-Dichloropropane	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
2-Hexanone	ND	0.500	mg/L	50	5/2/2011 6:44:00 PM	
4-Methyl-2-pentanone	ND	1.00	mg/L	50	5/2/2011 6:44:00 PM	
Acetone	ND	2.50	mg/L	50	5/2/2011 6:44:00 PM	
Benzene	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Bromodichloromethane	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Bromoform	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Bromomethane	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Carbon disulfide	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Carbon tetrachloride	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Chlorobenzene	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Chloroethane	ND	0.500	mg/L	50	5/2/2011 6:44:00 PM	
Chloroform	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Chloromethane	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
cis-1,2-Dichloroethene	36.0	5.00	mg/L	1000	5/3/2011 12:11:00 PM	
cis-1,3-Dichloropropene	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Dibromochloromethane	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Ethylbenzene	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
m,p-Xylene	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Methyl ethyl ketone	ND	2.50	mg/L	50	5/2/2011 6:44:00 PM	
Methylene chloride	ND	0.500	mg/L	50	5/2/2011 6:44:00 PM	
o-Xylene	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Styrene	ND	1.00	mg/L	50	5/2/2011 6:44:00 PM	
Tetrachloroethene	3.15	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Toluene	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
trans-1,2-Dichloroethene	ND	0.500	mg/L	50	5/2/2011 6:44:00 PM	
trans-1,3-Dichloropropene	ND	0.250	mg/L	50	5/2/2011 6:44:00 PM	
Trichloroethene	19.1	5.00	mg/L	1000	5/3/2011 12:11:00 PM	

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits



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**Analytical Report**  
(consolidated)  
WO#: **1104793**  
Date Reported: **5/5/2011**

**CLIENT:** Detrex Corporation **Collection Date:** 4/28/2011 10:45:00 AM  
**Project:** DS Tributary East & West  
**Lab ID:** 1104793-002 **Matrix:** LIQUID  
**Client Sample ID** DS Tributary-West

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>TCL VOC, LIQUID</b>						
<b>VOLATILE ORGANIC COMPOUNDS</b>						
Vinyl acetate	ND	0.500		mg/L	50	5/2/2011 6:44:00 PM
Vinyl chloride	8.40	1.00		mg/L	200	5/2/2011 5:56:00 PM
Surr: 4-Bromofluorobenzene	106	86-115		%REC	50	5/2/2011 6:44:00 PM
Surr: Dibromofluoromethane	98.2	86-118		%REC	50	5/2/2011 6:44:00 PM
Surr: Toluene-d8	101	88-110		%REC	50	5/2/2011 6:44:00 PM

<b>Qualifiers:</b>	*/X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	DF	Dilution Factor	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response
	MDL	Method Detection Limit	N	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	PL	Permit Limit
	RL	Reporting Detection Limit (PQL)	S	Spike outside acceptance limits

PRECISION ANALYTICAL, INC.

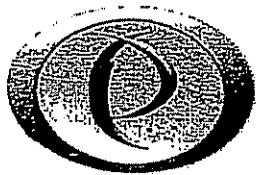
4450 JOHNSTON PARKWAY, UNIT B • CLEVELAND, OH 44128  
(216) 663-0808 • FAX (216) 663-0656

**LABORATORY WORK ORDER #**

1104793

Page 1 of 1

REPORT TO: CONTACT & COMPANY <b>Deterex Env.</b>		INVOICE TO: NAME <b>Sue Spain</b>				
ADDRESS 1135 STATE ST. KINGSTON, NY 12401	ADDRESS 1135 STATE ST. KINGSTON, NY 12401	PHONE NO. 914-272-6131	PHONE NO. 914-272-2904			
PROJECT NAME/NUMBER Kingswell E2 Coccoap, C&H	STATE NY	ZIP CODE 12401	STATE NY			
ZIP CODE 12401	ZIP CODE 12401	PHONE NO. FAX NO. 914-272-2904	FAX NO. 914-272-2904			
QUOTE #: 70						
ANALYSIS REQUESTED						
<p><b>Turnaround Time:</b> <input checked="" type="checkbox"/> Std. <input type="checkbox"/> Rush: <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. Authorizing signature _____</p> <p><b>Special Instructions &amp; QC Requirements (additional charge for QC):</b></p> <p><input type="checkbox"/> Sample Disposal (A fee will be assessed if samples are retained longer than 1 month &amp; disposed of by lab)</p> <p><input type="checkbox"/> Return To Client</p> <p><input type="checkbox"/> Disposal By Lab</p> <p><input type="checkbox"/> Archive For Months</p> <p><input type="checkbox"/> VISIBLE ICE (circle) <input checked="" type="radio"/> YES <input type="radio"/> NO</p> <p><b>MATRIX</b></p> <p>100% 100% 100% 100%</p>						
NO.	CUSTOMER SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME			
1	DS TRIBUTARY - East	4-28-11	10:30 AM			
2	DS TRIBUTARY - West	"	10:30 AM			
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
Sample(s): (Signature) <i>John Daniel</i>	Relinquished by: (Signature) <i>John Daniel</i>	Date 4/29/11	Received by: (Signature) <i>Alma M. Shi</i>	Date 4/29/11	Reinquished by: (Signature) <i>Alma M. Shi</i>	Date 4/29/11
Received by: (Signature) <i>Christoast</i>	Relinquished by: (Signature)	Date 4/29/11	Received in laboratory by: (Signature) <i>Christoast</i>	Date 4/29/11	Time 13:30	Time 13:30



**PRECISION**  
**ANALYTICAL INC.**

## Sample Receipt Checklist

Work Order No. 1104793

RUSH:  Yes  No  NA

Date & Time Received: 4/29/11 1330 Received By: CR

Date & Time Logged In: 4/29/11 14:33 Logged In By: CR

Date & Time Reviewed: 5/2/11 1020 Reviewed By: (JW)

Carrier Name:  PAI  UPS  FedEx  Client  Other \_\_\_\_\_

Samples Analyzed In House?  Yes  No Subbed To \_\_\_\_\_

Is Chain Of Custody Present?  Yes  No

Is Chain Of Custody Properly Filled Out?  Yes  No

Does Chain Of Custody Match Sample Labels?  Yes  No

Are Samples Past Hold Time?  Yes  No  NA

Are Samples In Proper Containers?  Yes  No Intact?  Yes  No

No. Of Containers? 6  Glass  Plastic  Baggie  VOA  Micro  Other \_\_\_\_\_

When Applicable, Is Headspace Present?  Yes  No

Matrix:  Aqueous  Liquid  Sludge  Solid  Oil  Drinking Water  Soil  Other \_\_\_\_\_

On Ice? 4 °C  Yes  No  NA

Are Samples Preserved?  Yes  No  NA

pH Results:

Metals _____	Hardness _____	<input type="checkbox"/> HN03	CN _____	<input type="checkbox"/> NaOH
--------------	----------------	-------------------------------	----------	-------------------------------

COD _____	NH3 _____	Phenol _____	TOC _____	TKN/TON _____	Phos _____	No2No3 _____	<input type="checkbox"/> H2S04
Sulfide _____	<input type="checkbox"/> NaOH & ZnAcetate						Other _____

Field Data:  pH  Temp  Flow  TRC  TRC Low  Color  Odor  Turbidity  Other \_\_\_\_\_

Explanation of Comments & Problems:

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